#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



### 

### (43) International Publication Date 29 April 2004 (29.04.2004)

#### **PCT**

## (10) International Publication Number WO 2004/036834 A1

(51) International Patent Classification<sup>7</sup>: 29/06

H04L 12/46,

gun, Ishikawa-ken 923-1211 (JP). WARIS, Heikki [FI/JP]; 2-207, Todehon-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0023 (JP).

(21) International Application Number:

PCT/IB2002/004295

(74) Agent: HIGGIN, Paul; Swindell & Pearson, 48 Friar Gate, Derby DE1 1GY (GB).

(22) International Filing Date: 17 October 2002 (17.10.2002)

(81) Designated States (national): JP, US.

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).

Published:

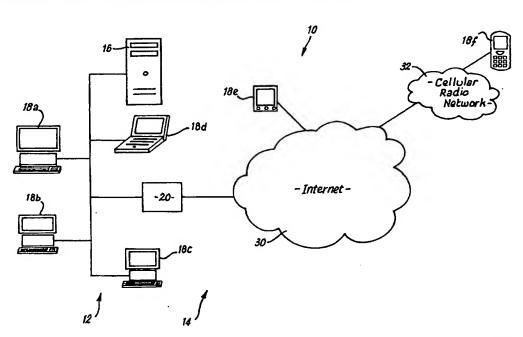
with international search report

(72) Inventors; and

(75) Inventors/Applicants (for US only): NAKATA, Junya [JP/JP]; 1-8-2-112, Asahidai, Tatsnokuchi-machi, Nomki-

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SECURED VIRTUAL PRIVATE NETWORK WITH MOBILE NODES



(57) Abstract: A security gateway connects an external portion of a virtual private network to an internal secured portion of the network. The gateway is arranged to identify automatically when a communication session exists between two mobile workstations both of which are connected in the external portion of the network. The mobile workstations are then enabled to communicate with each other without using the gateway as an intermediary. This communication can be secured. The route by which packets are transferred between the workstations may then be optimised.

2004/036834 A1